

FIG. 1A

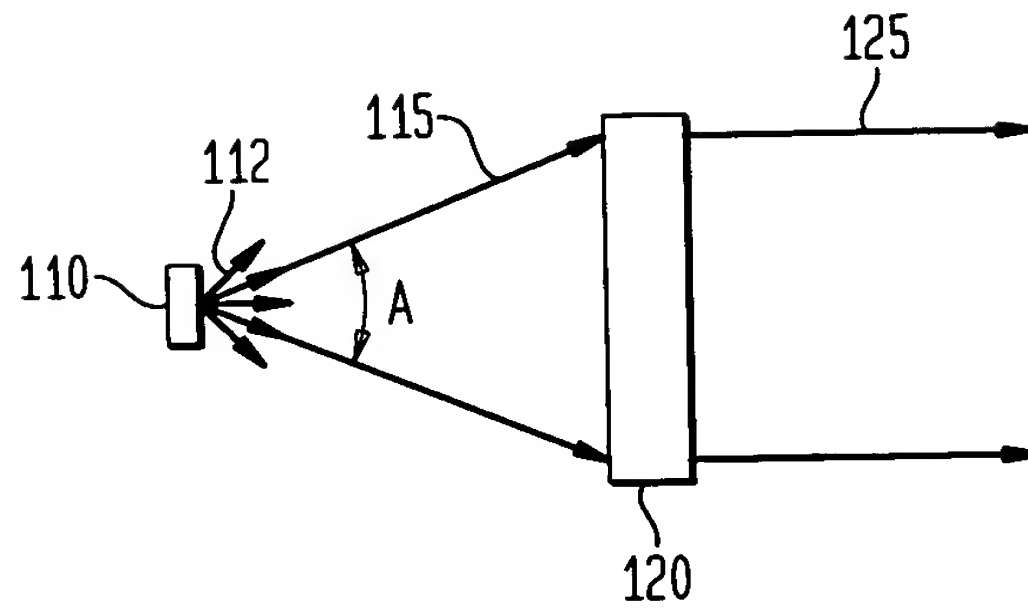


FIG. 1B
(PRIOR ART)
COLL ONLY

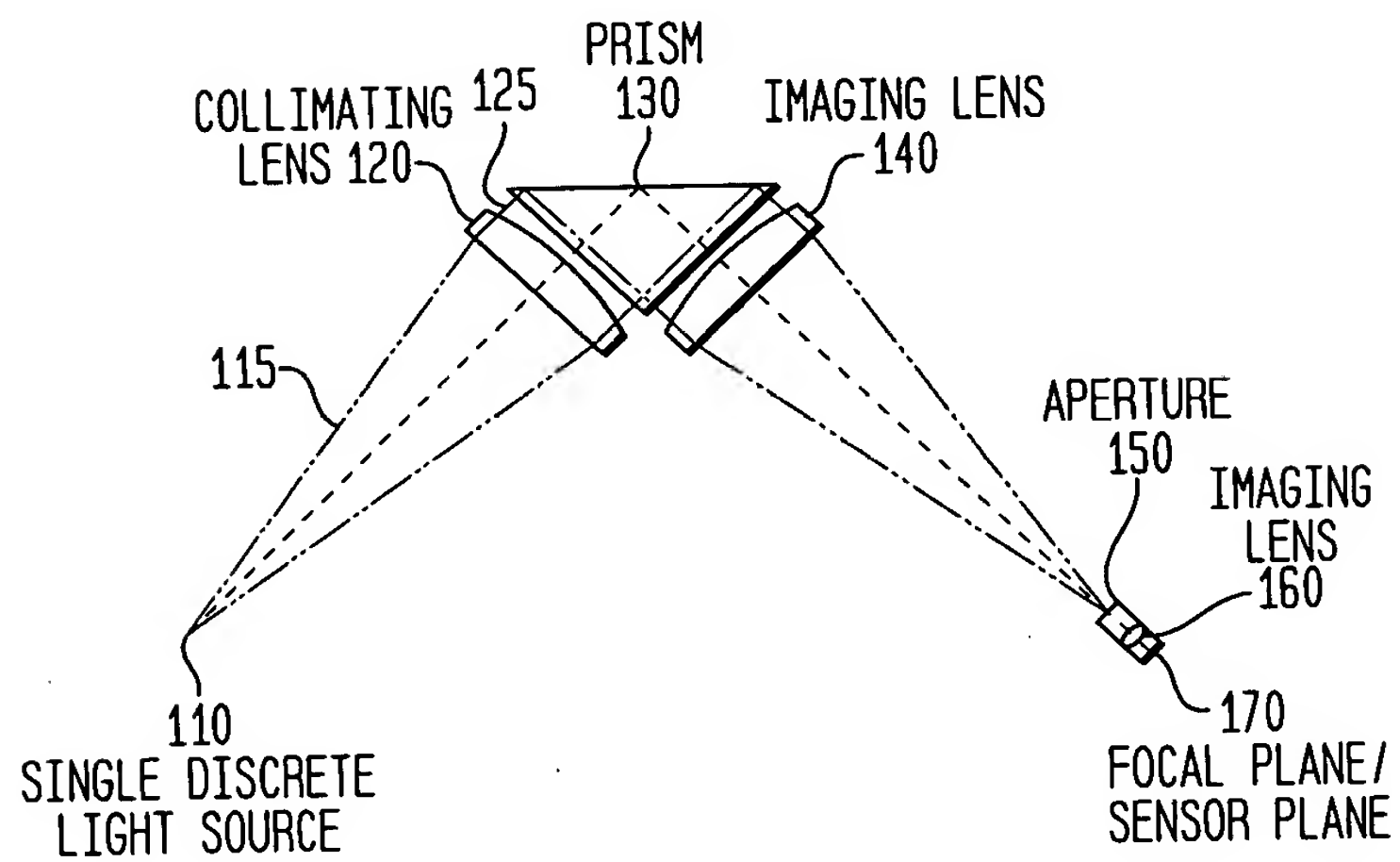


FIG. 2
(PRIOR ART)
DIFF ONLY

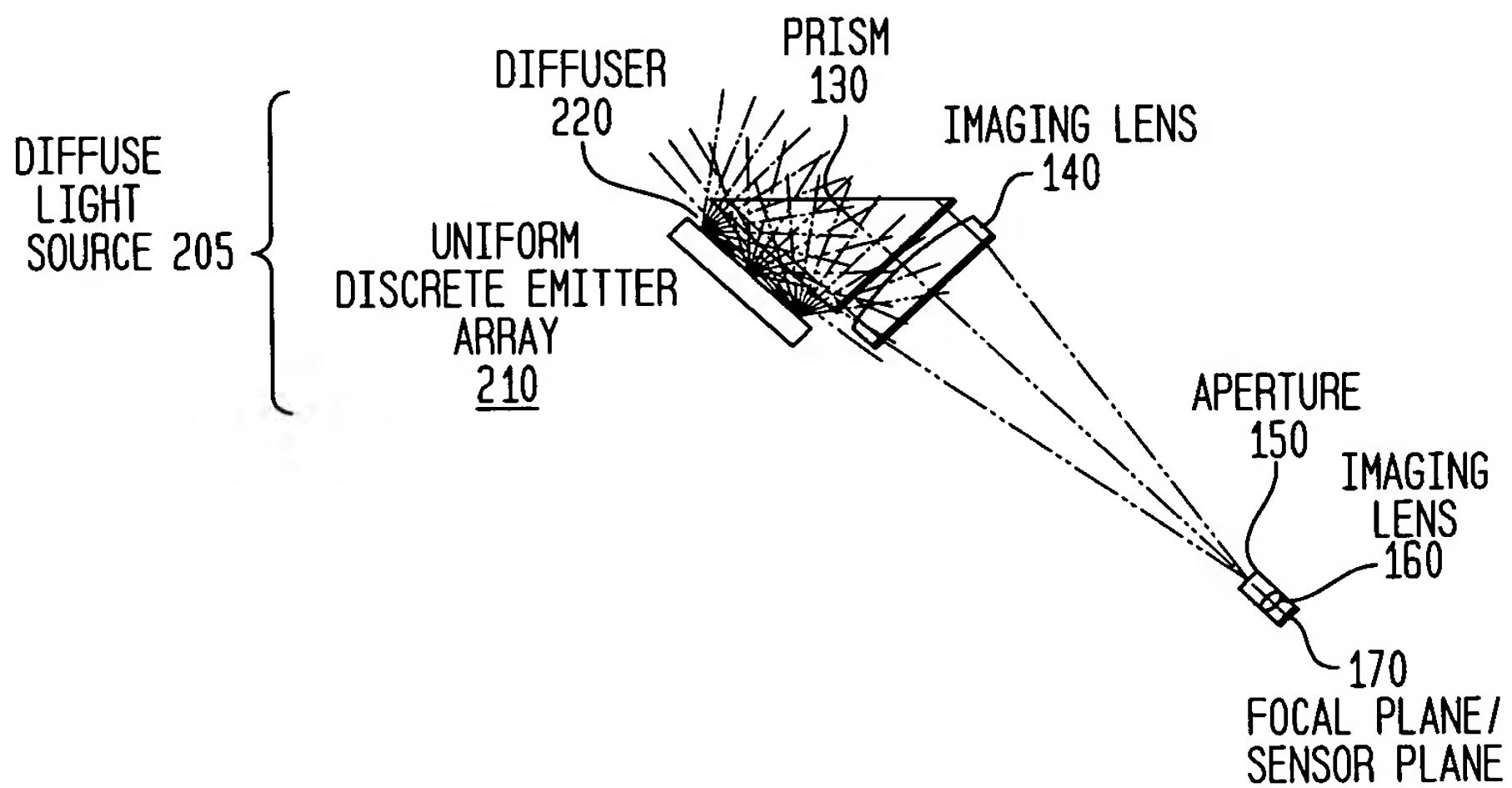
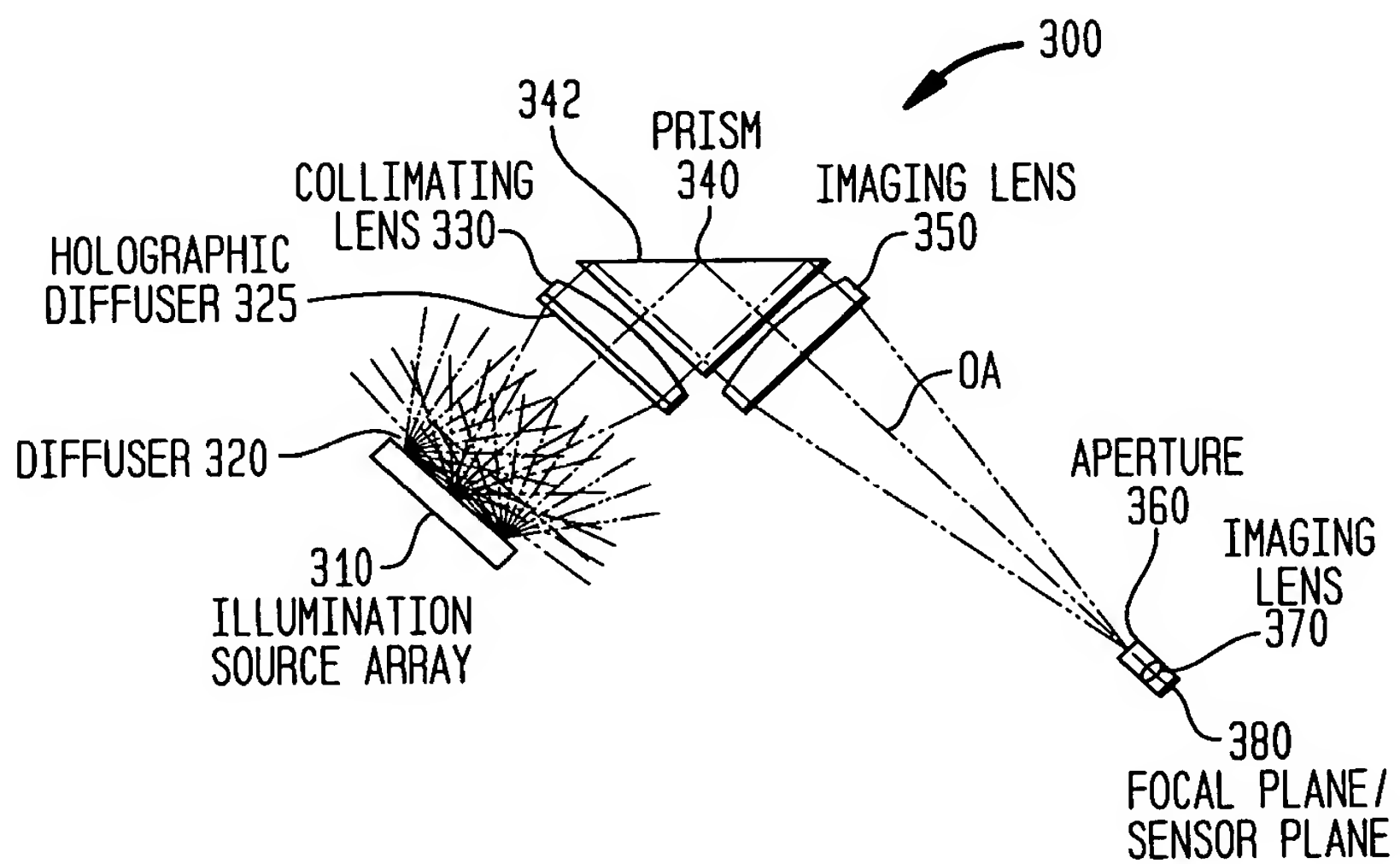


FIG. 3A
INVENTION HYBRID ILLUM.



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FIG. 3B

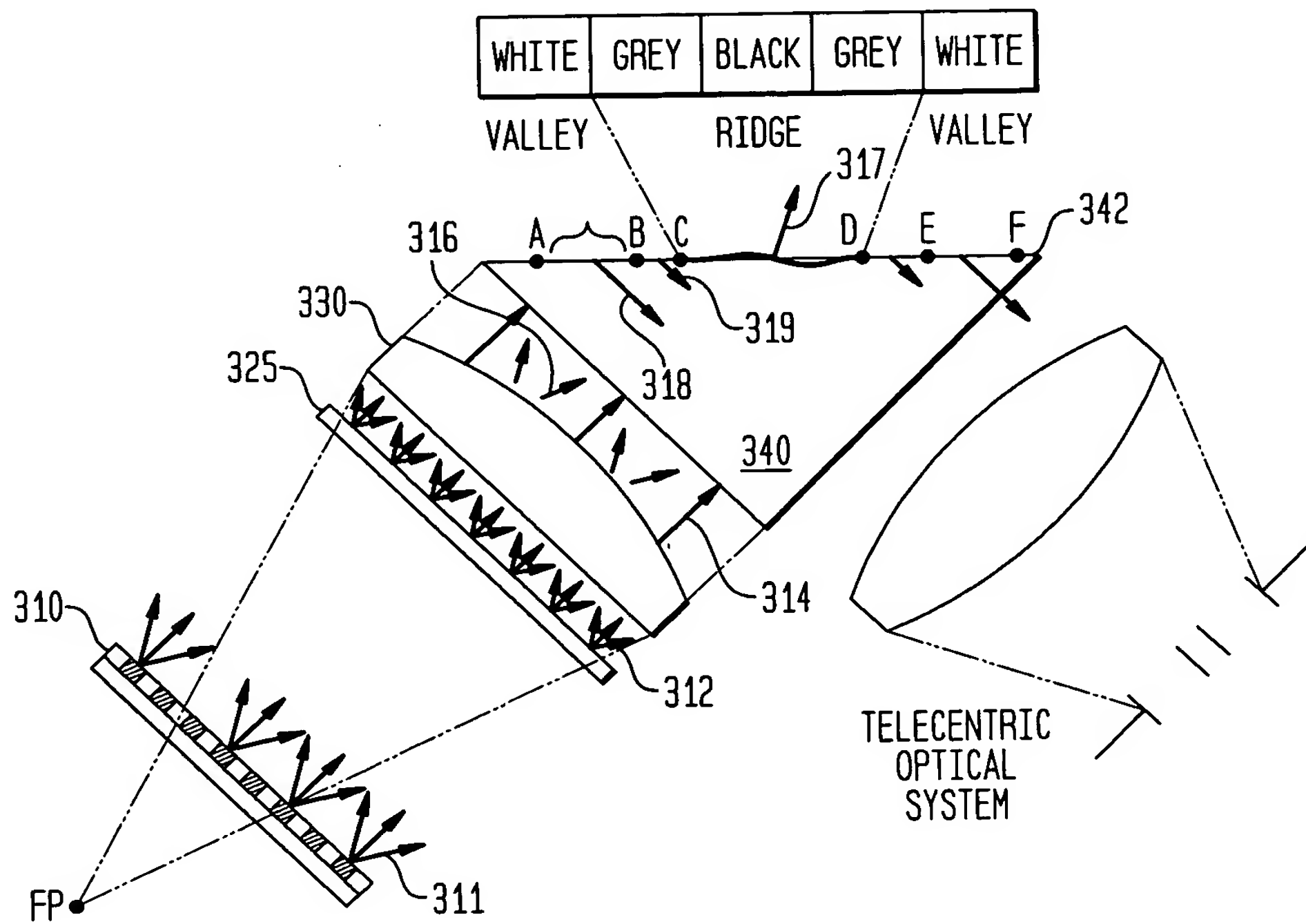


FIG. 3C

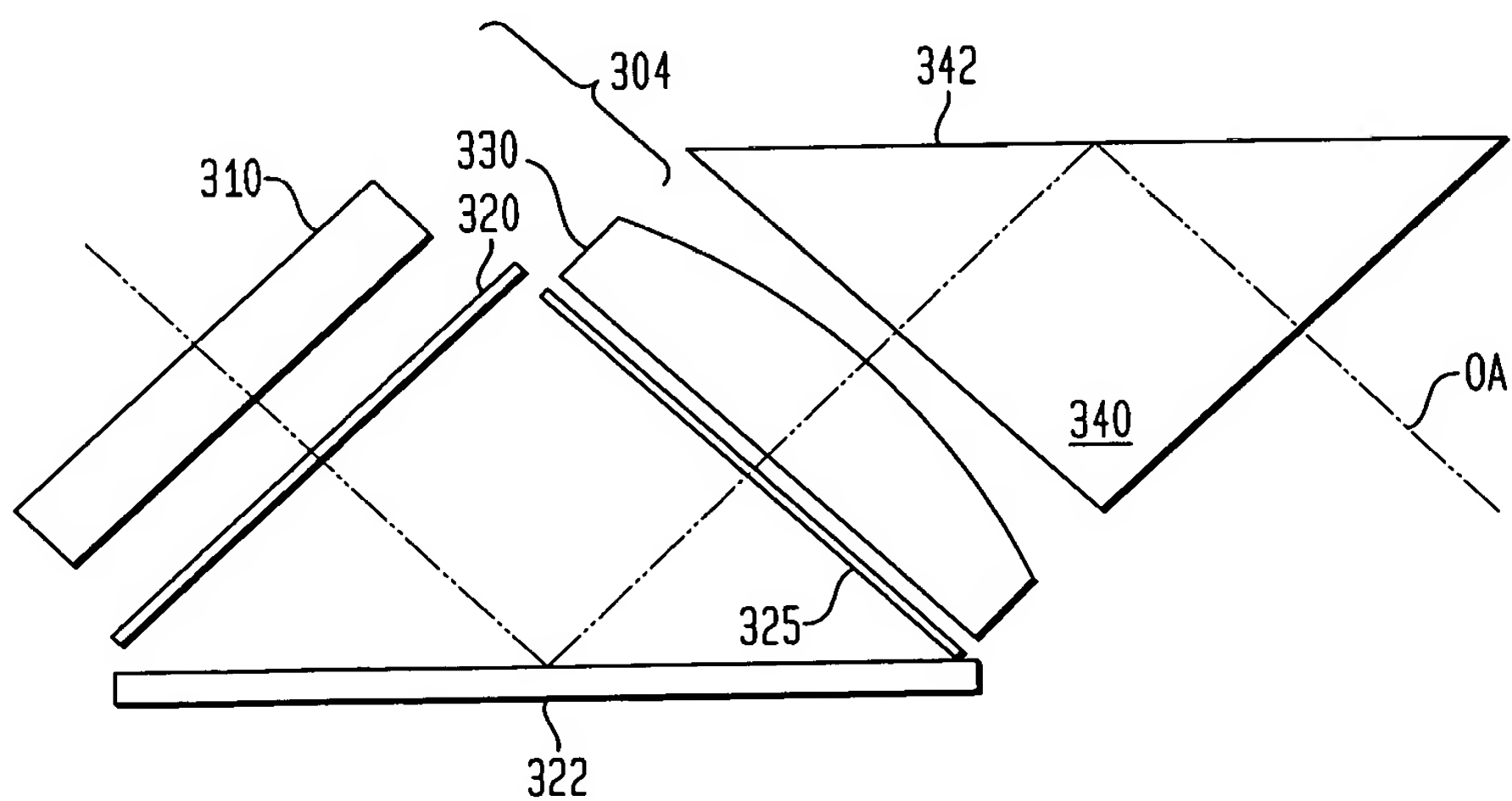


FIG. 4

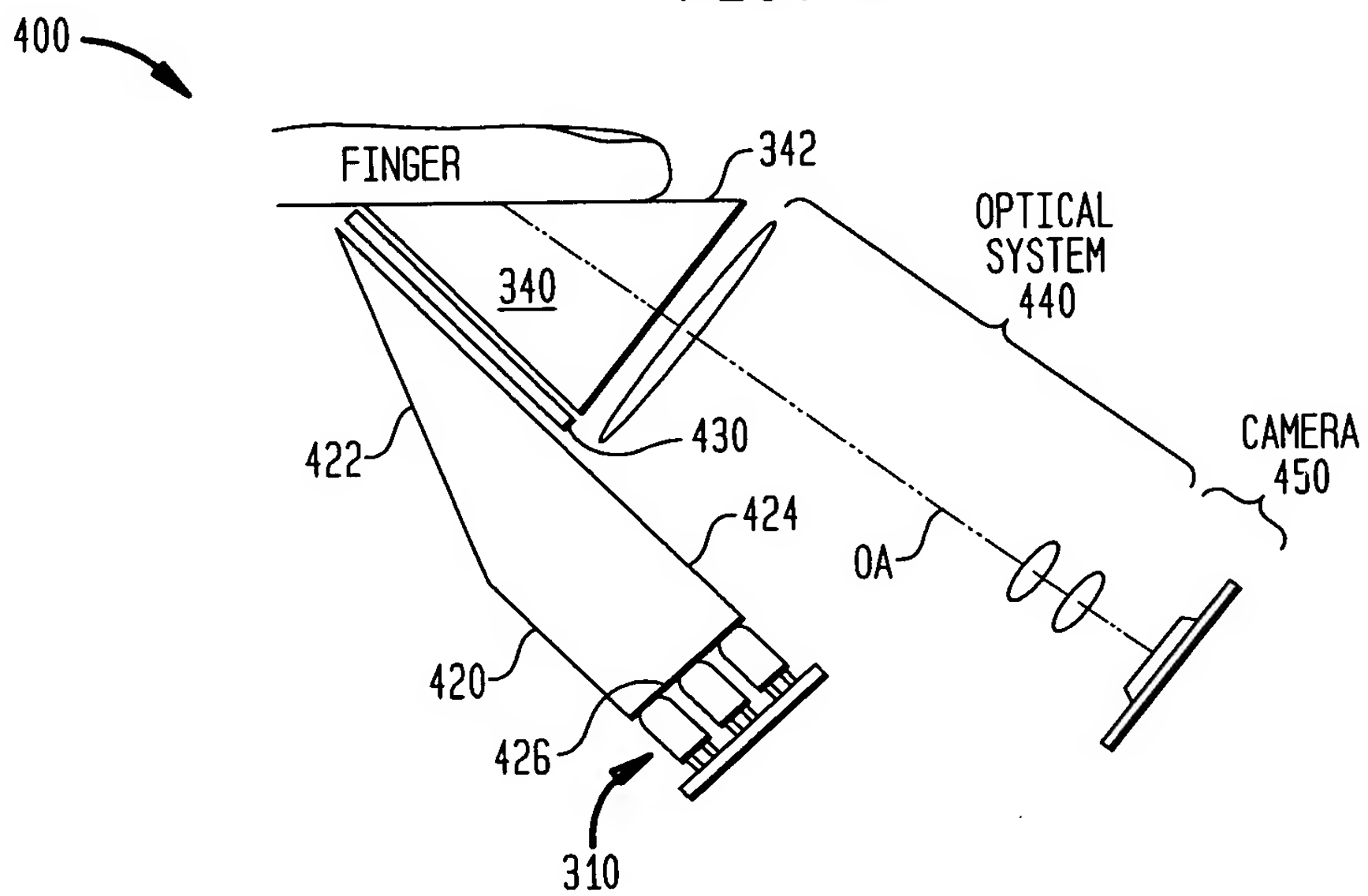


FIG. 5

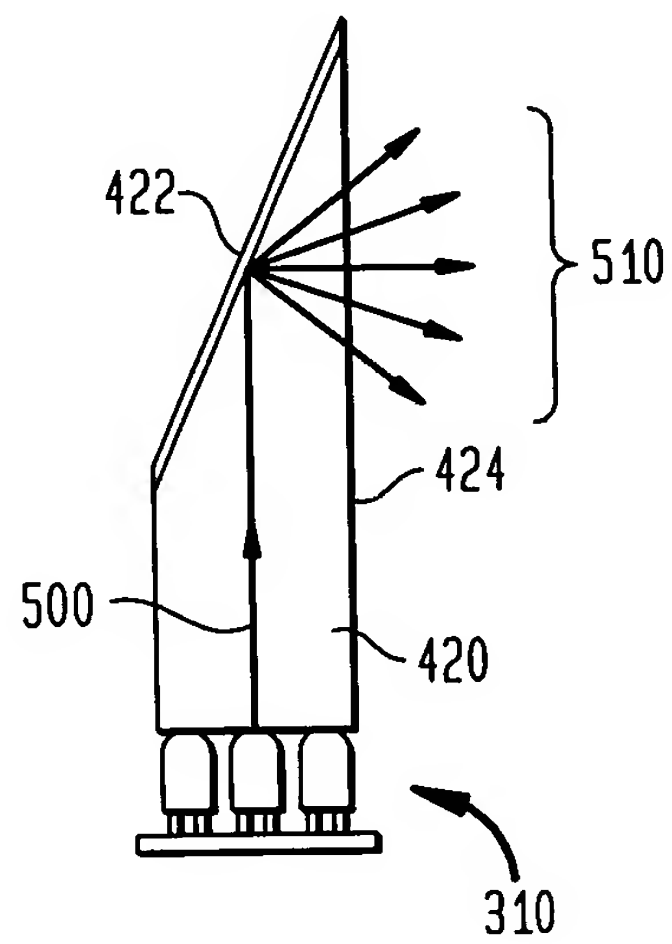


FIG. 6A

NON-UNIFORM ILLUMINATION SOURCE ARRAY
600

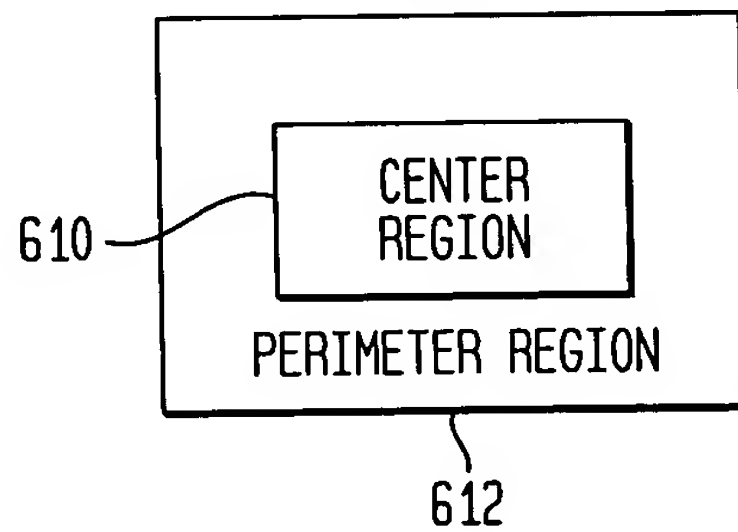


FIG. 6C

NON-UNIFORM ILLUMINATION SOURCE ARRAY
620

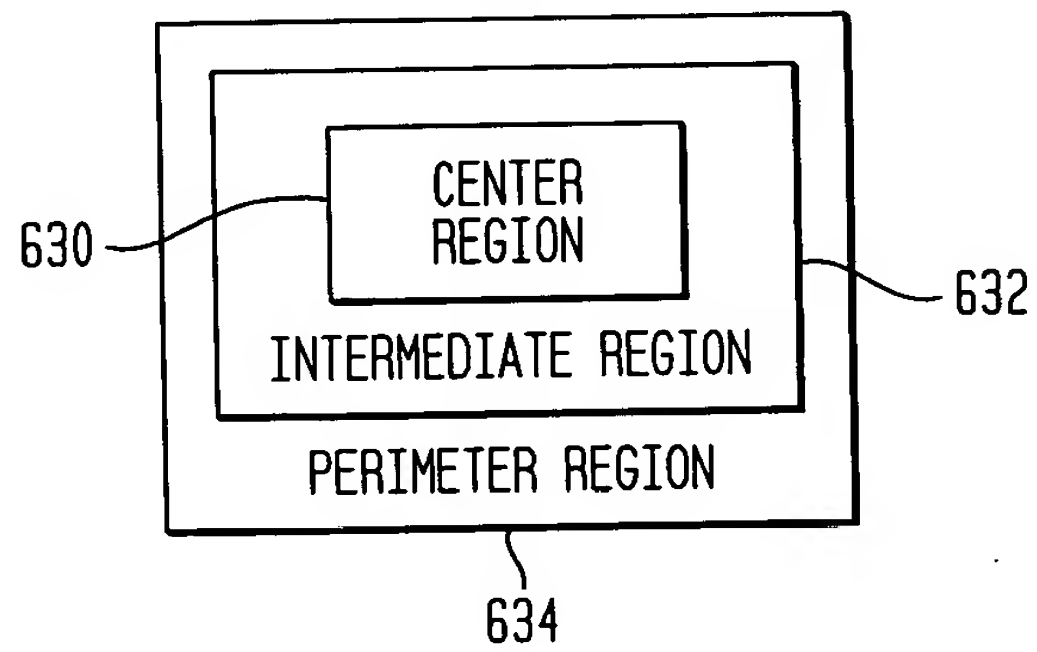
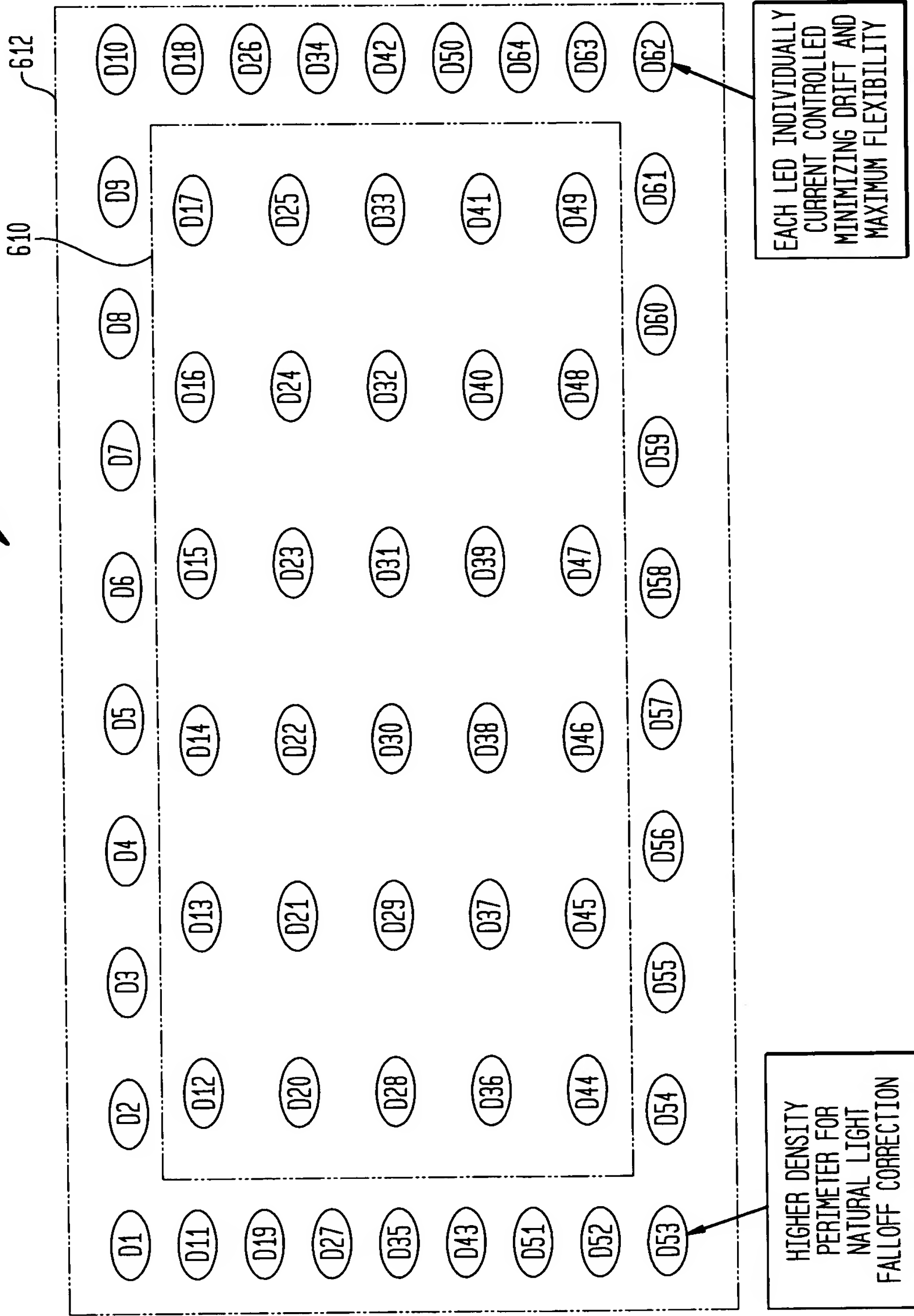


FIG. 6B 600



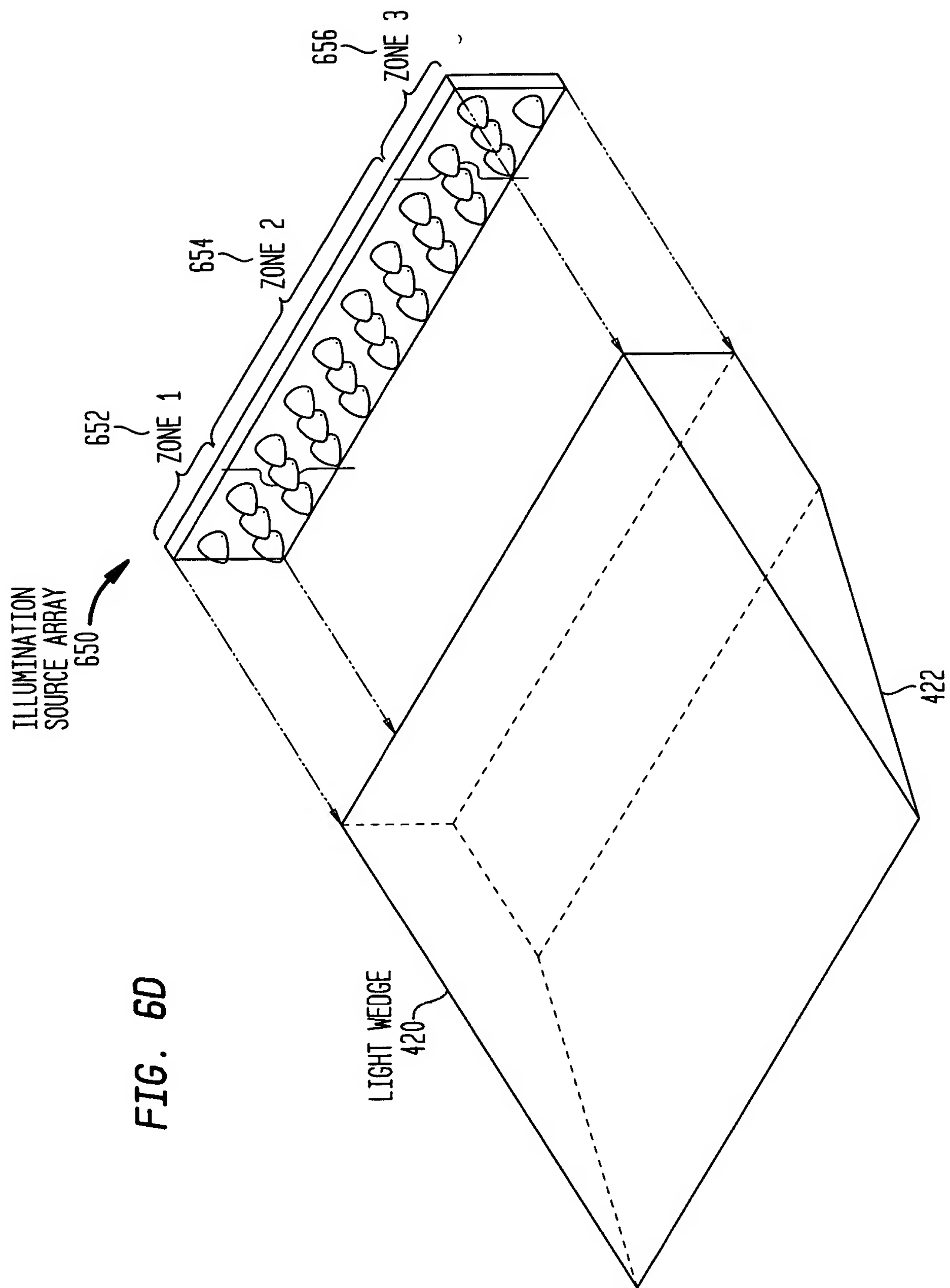


FIG. 7

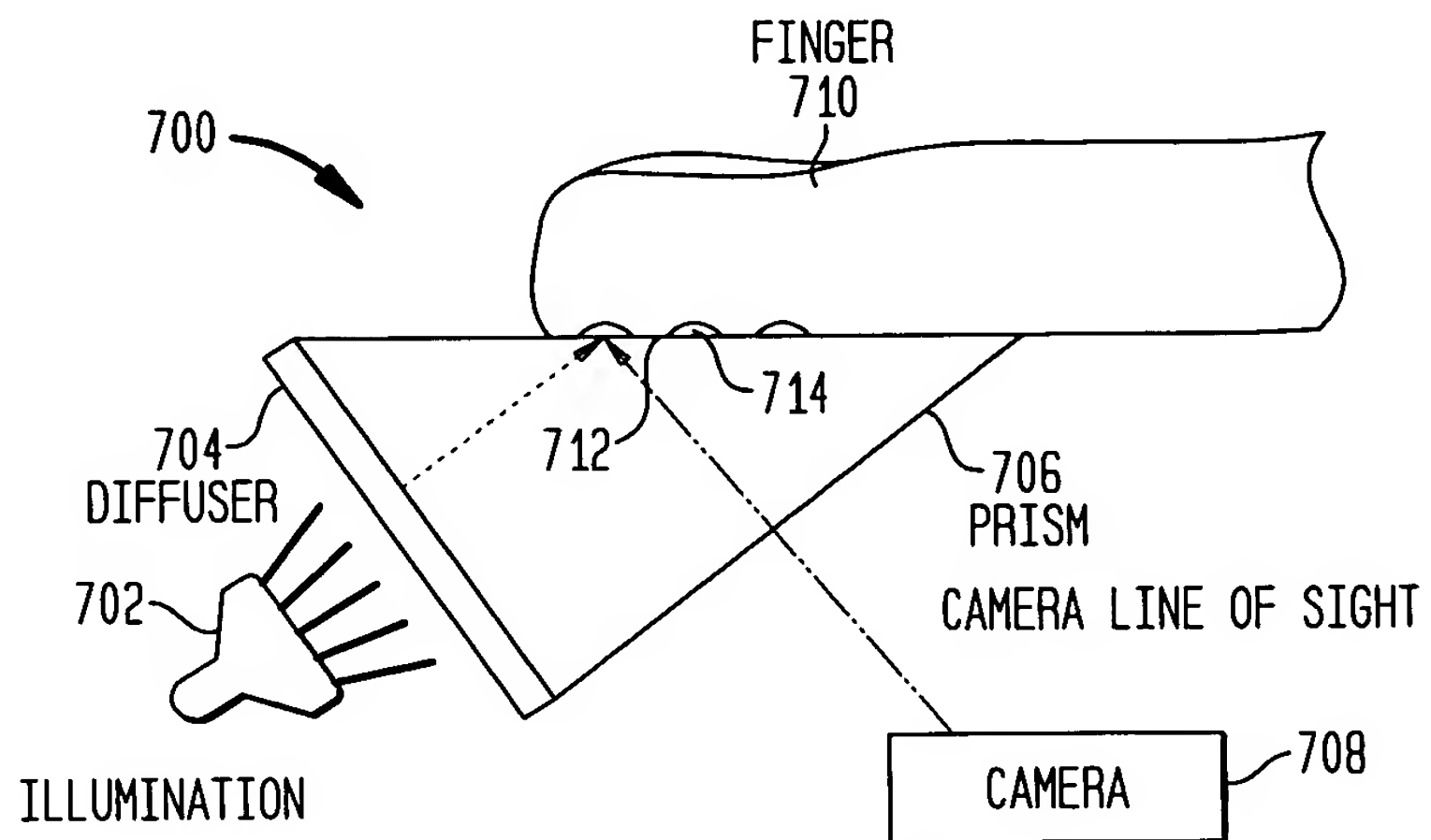
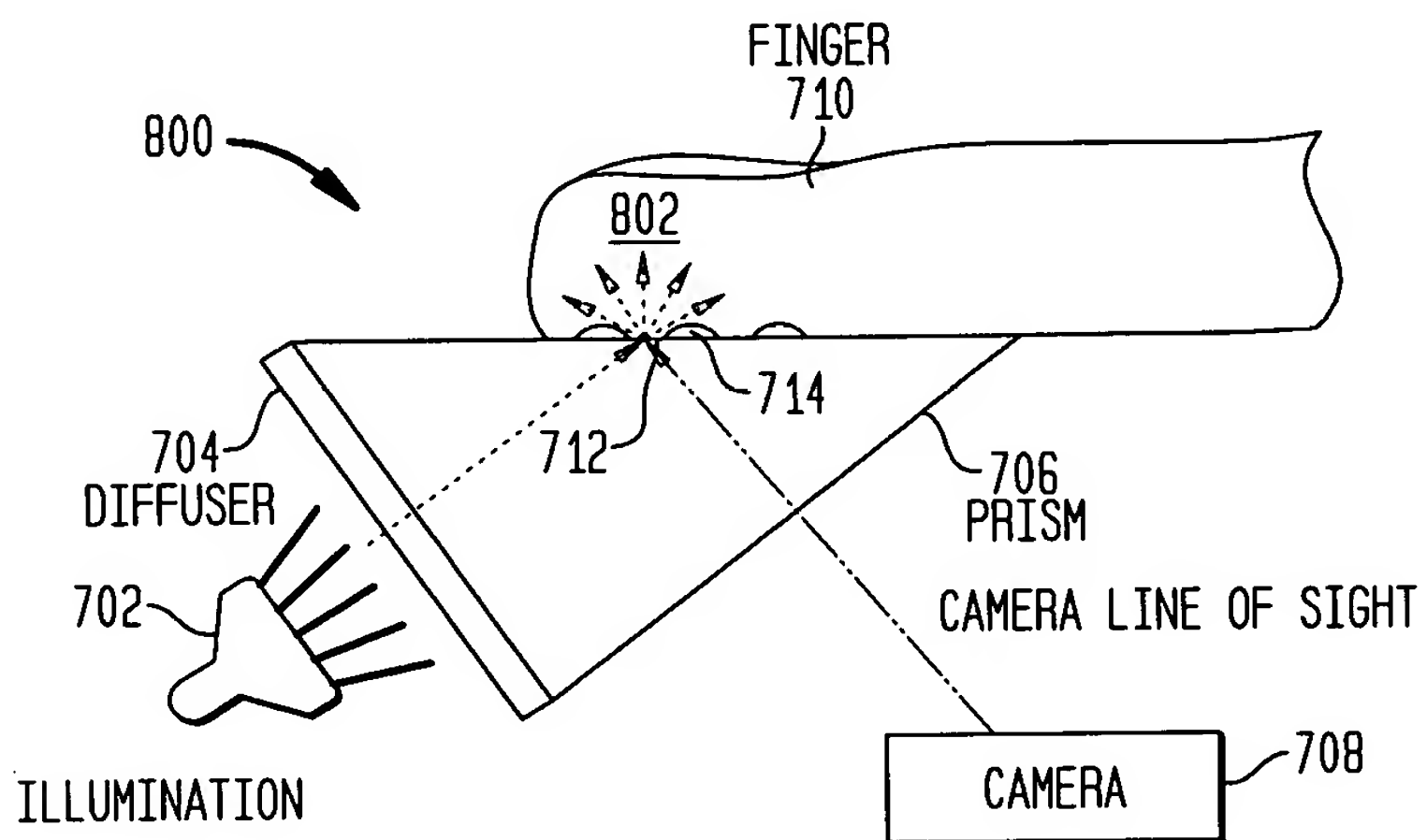


FIG. 8



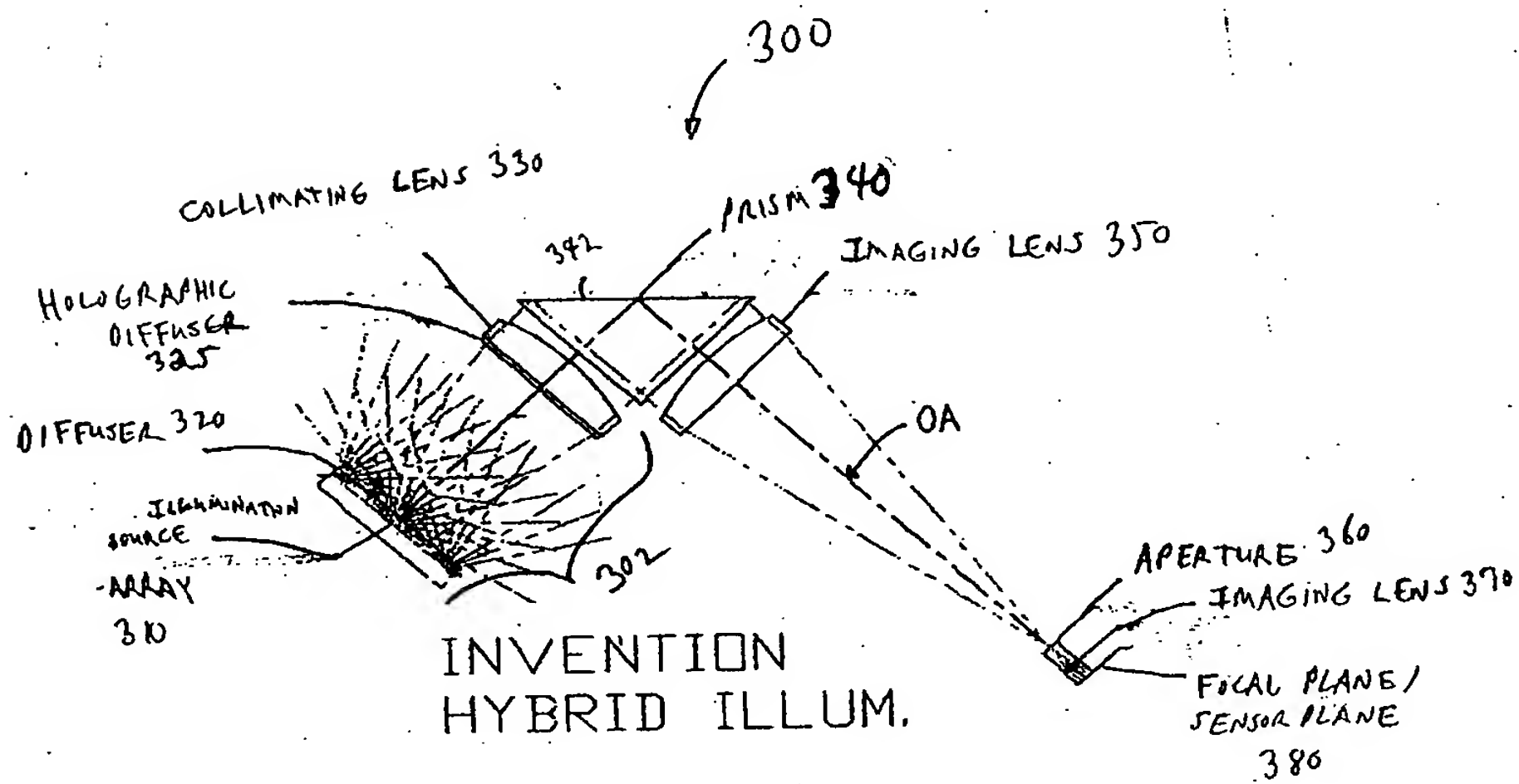


FIG. 3A

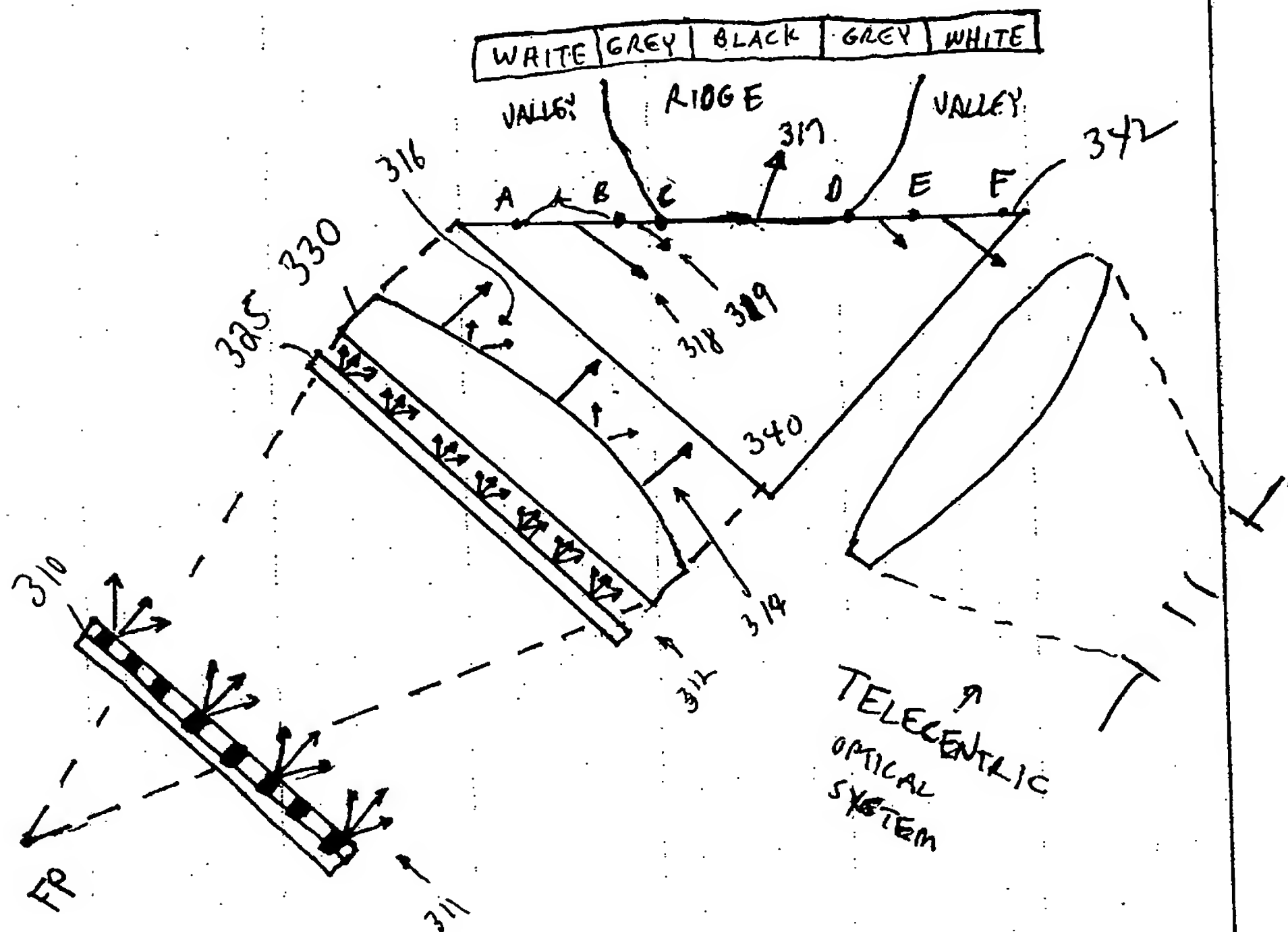
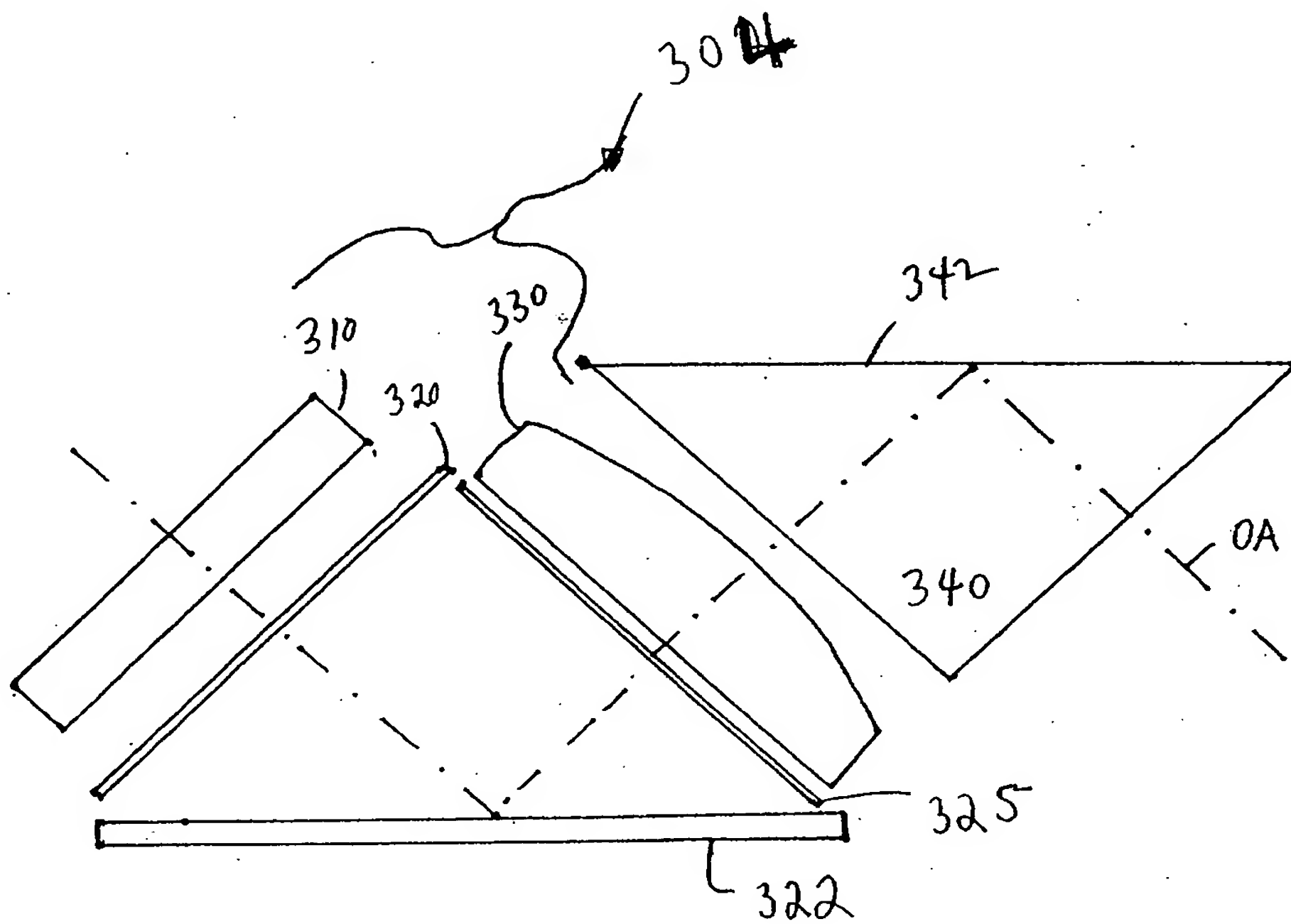


FIG. 3B



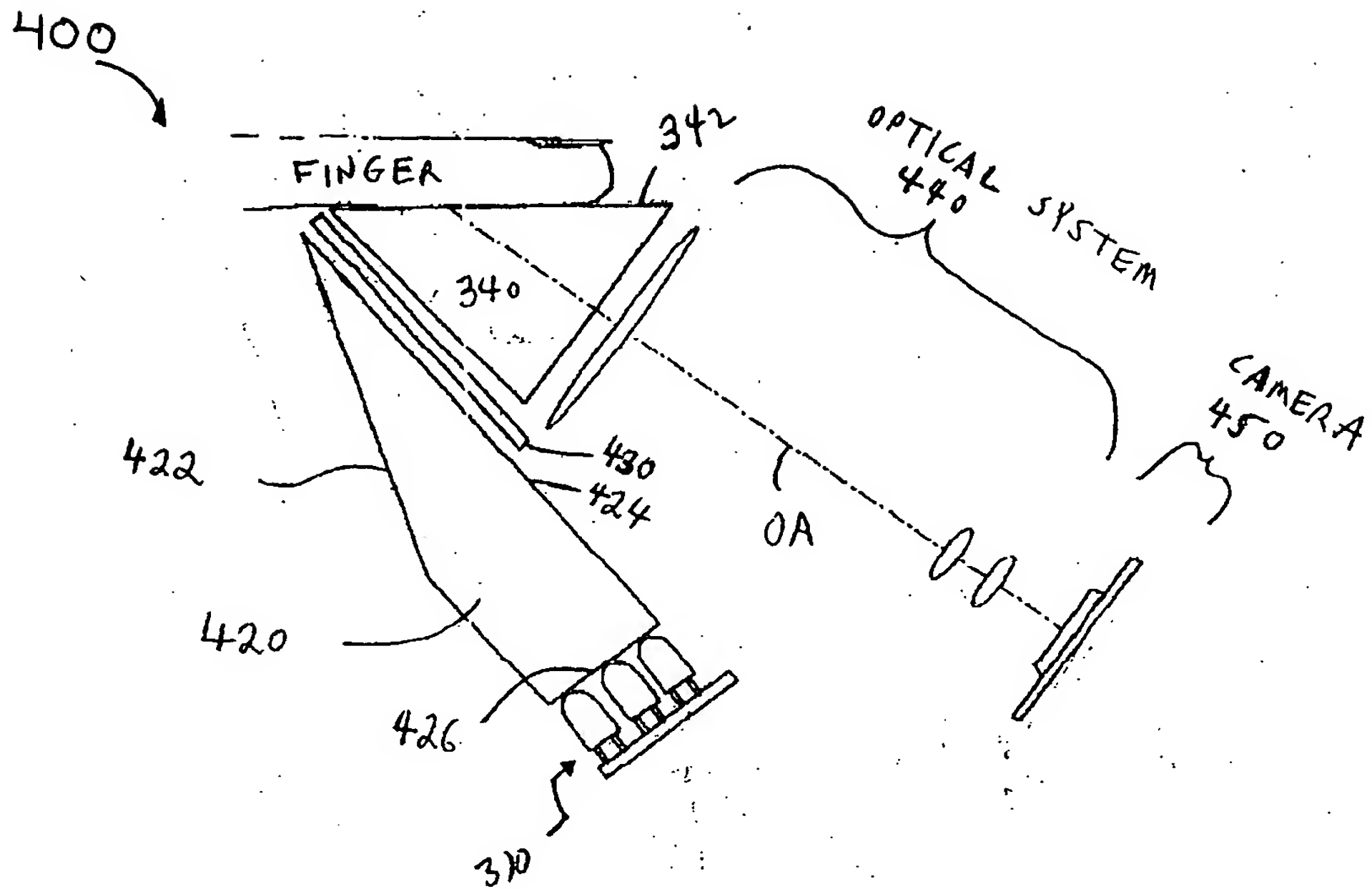


FIG. 4

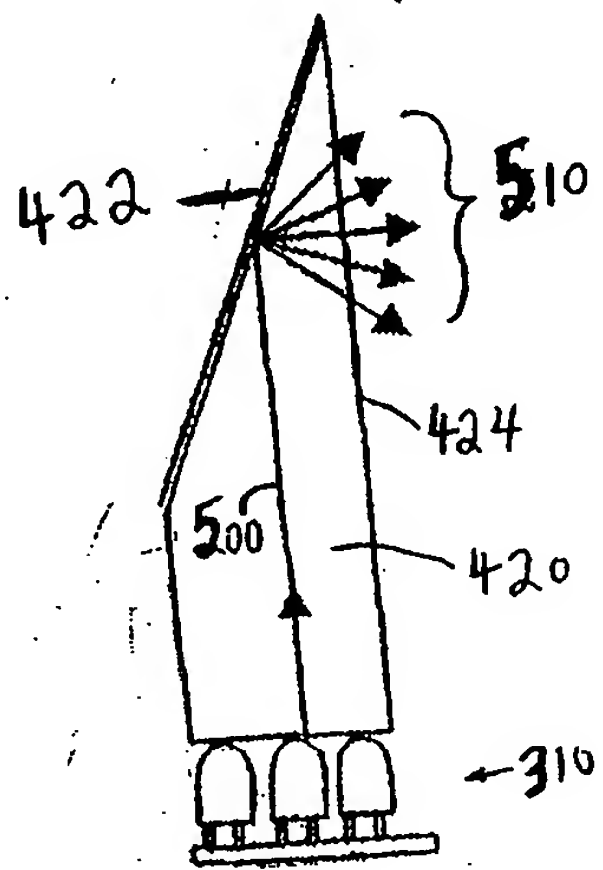
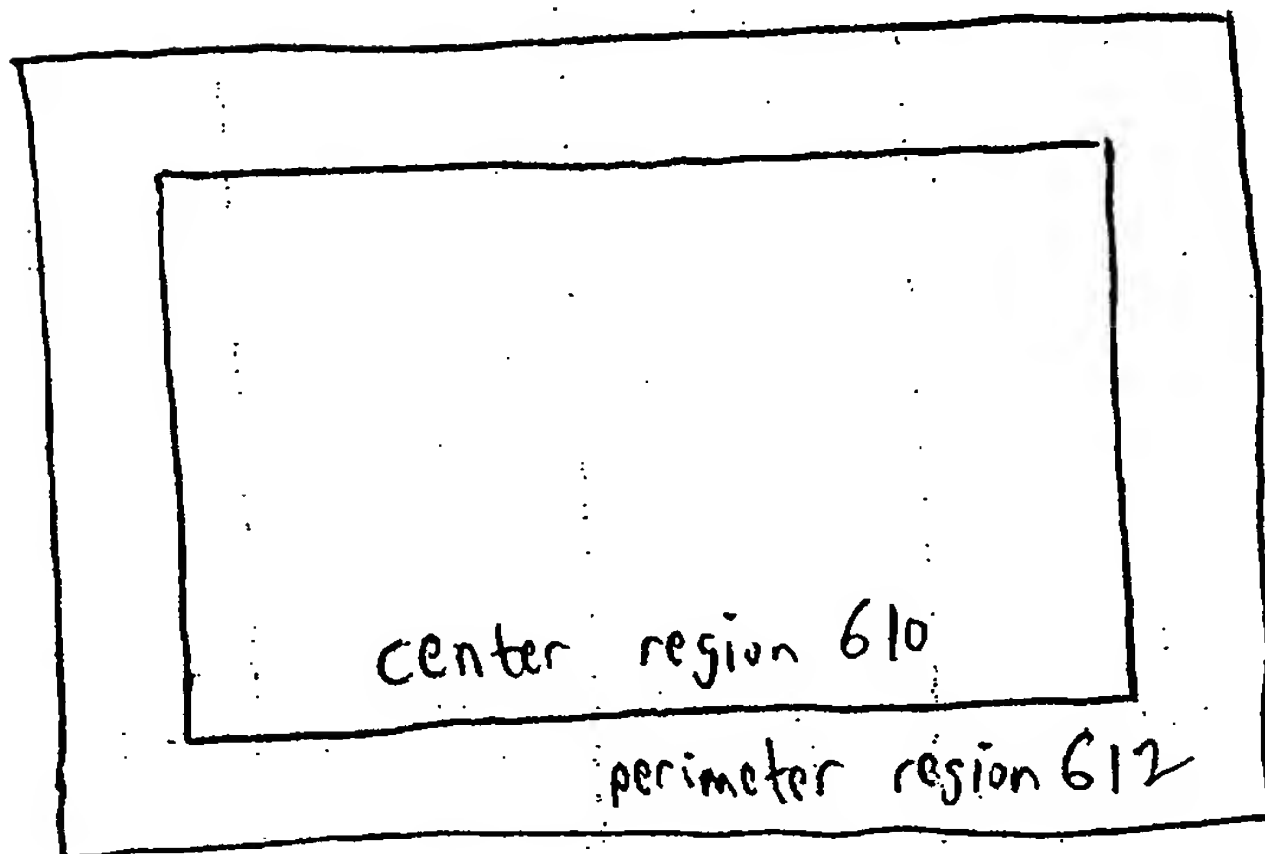
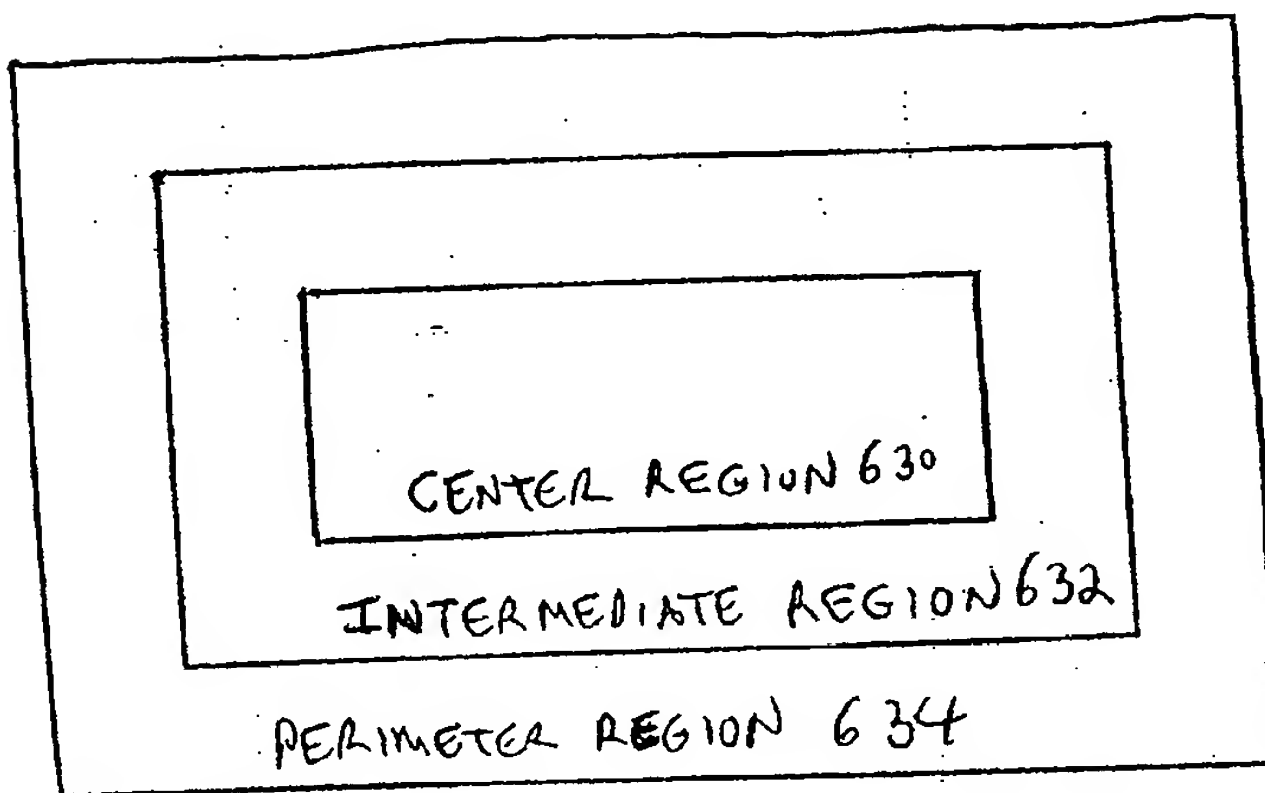


FIG. 5



NON-UNIFORM
illumination
← source
array 600

FIG. 6A



NON-UNIFORM
illumination
← source
array
620

FIG. 6B

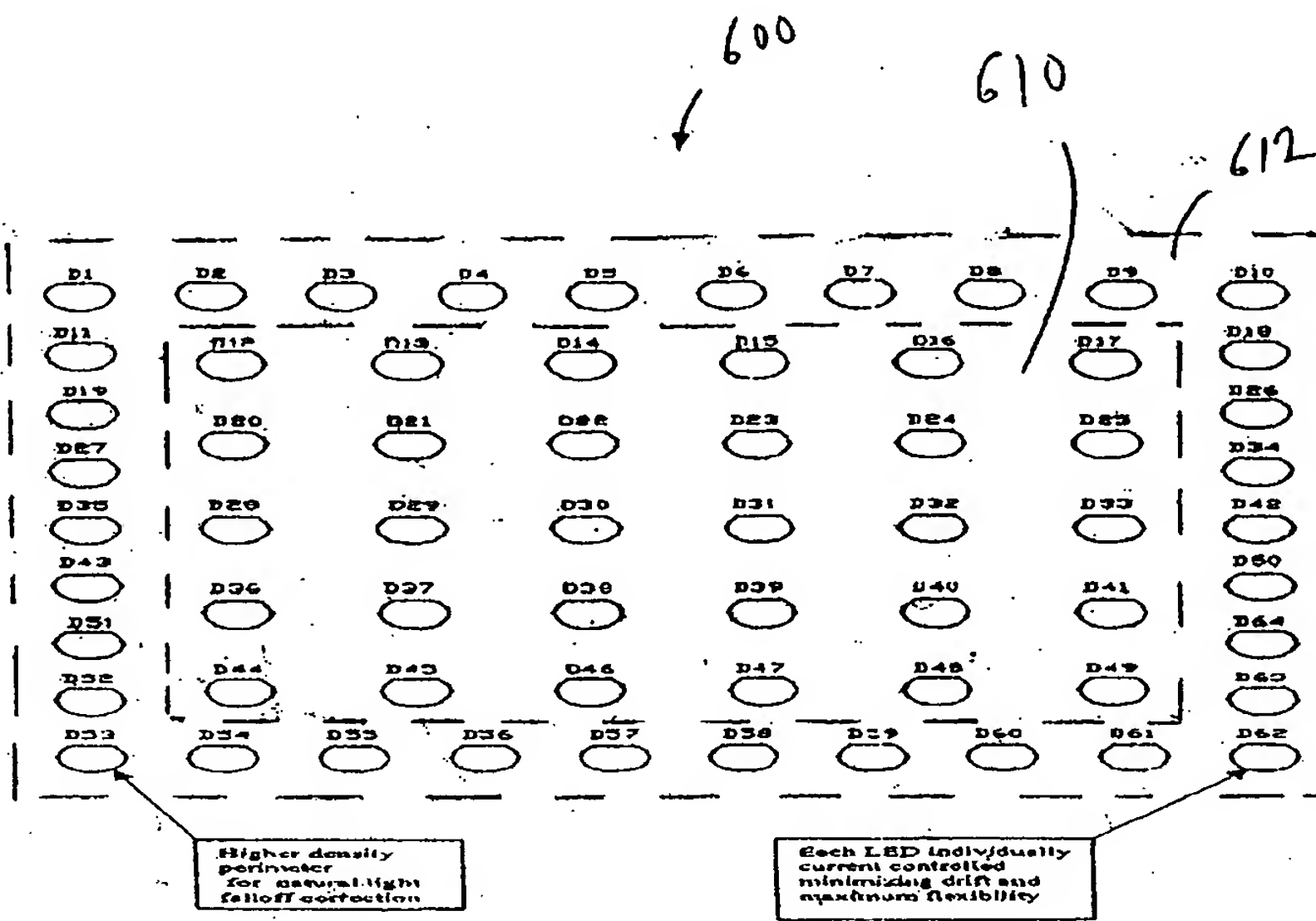


FIG. 6B

with any of the other systems in which the light source is a source of light and the light is directed to the light source.

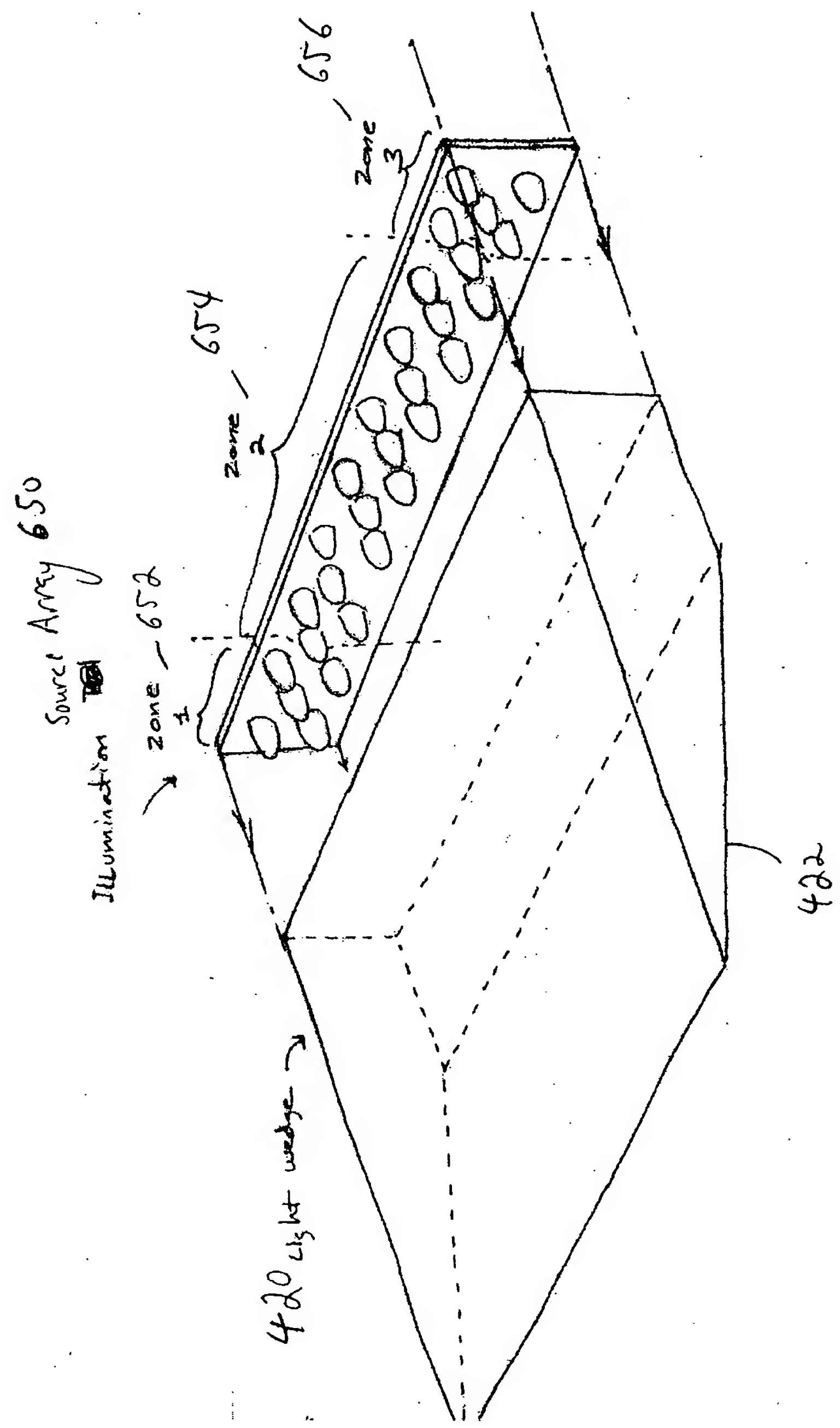


FIG. 6D

and the light source is positioned to illuminate the finger and the camera is positioned to view the finger through the prism.

FIG. 7

710

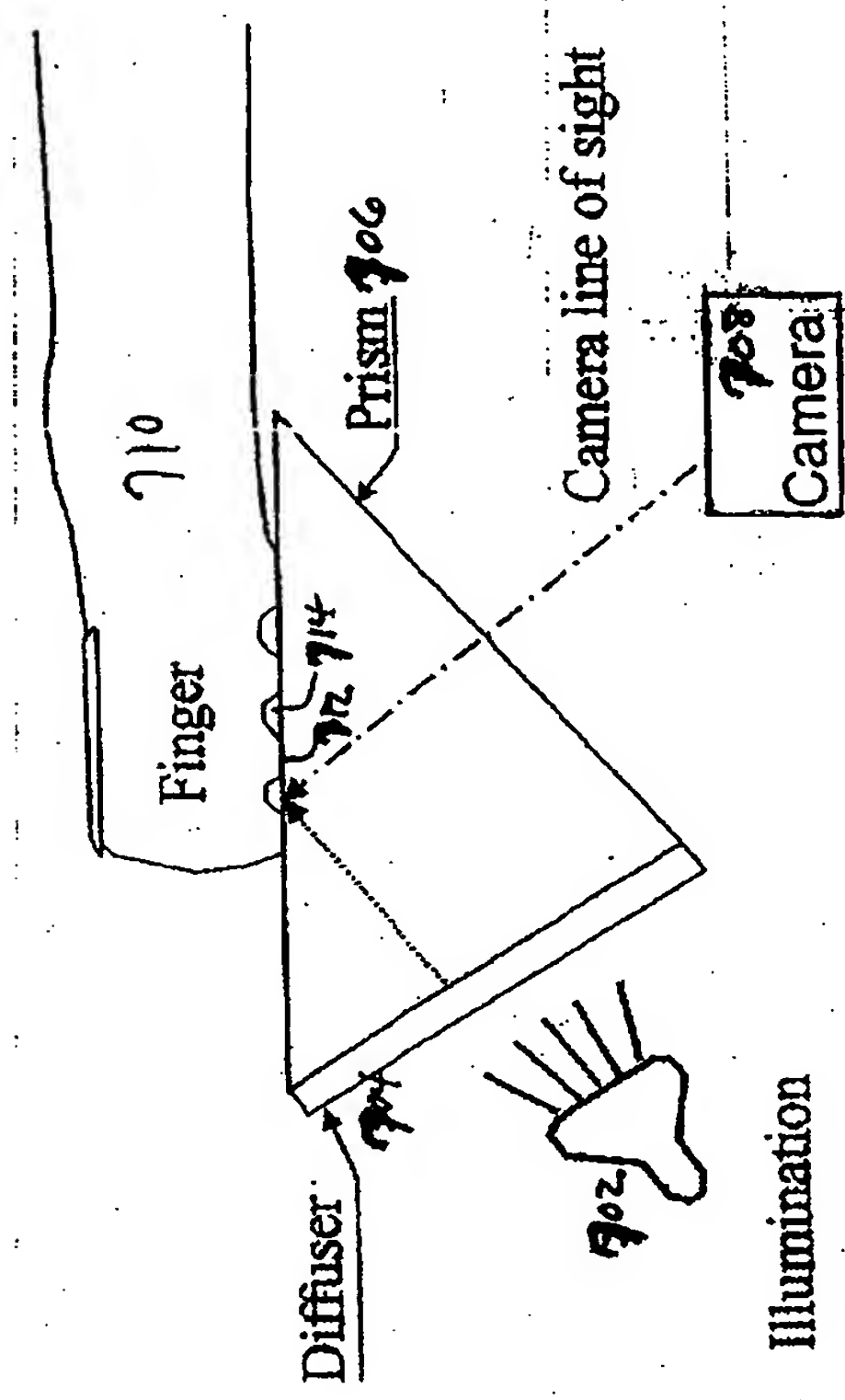


FIG. 7

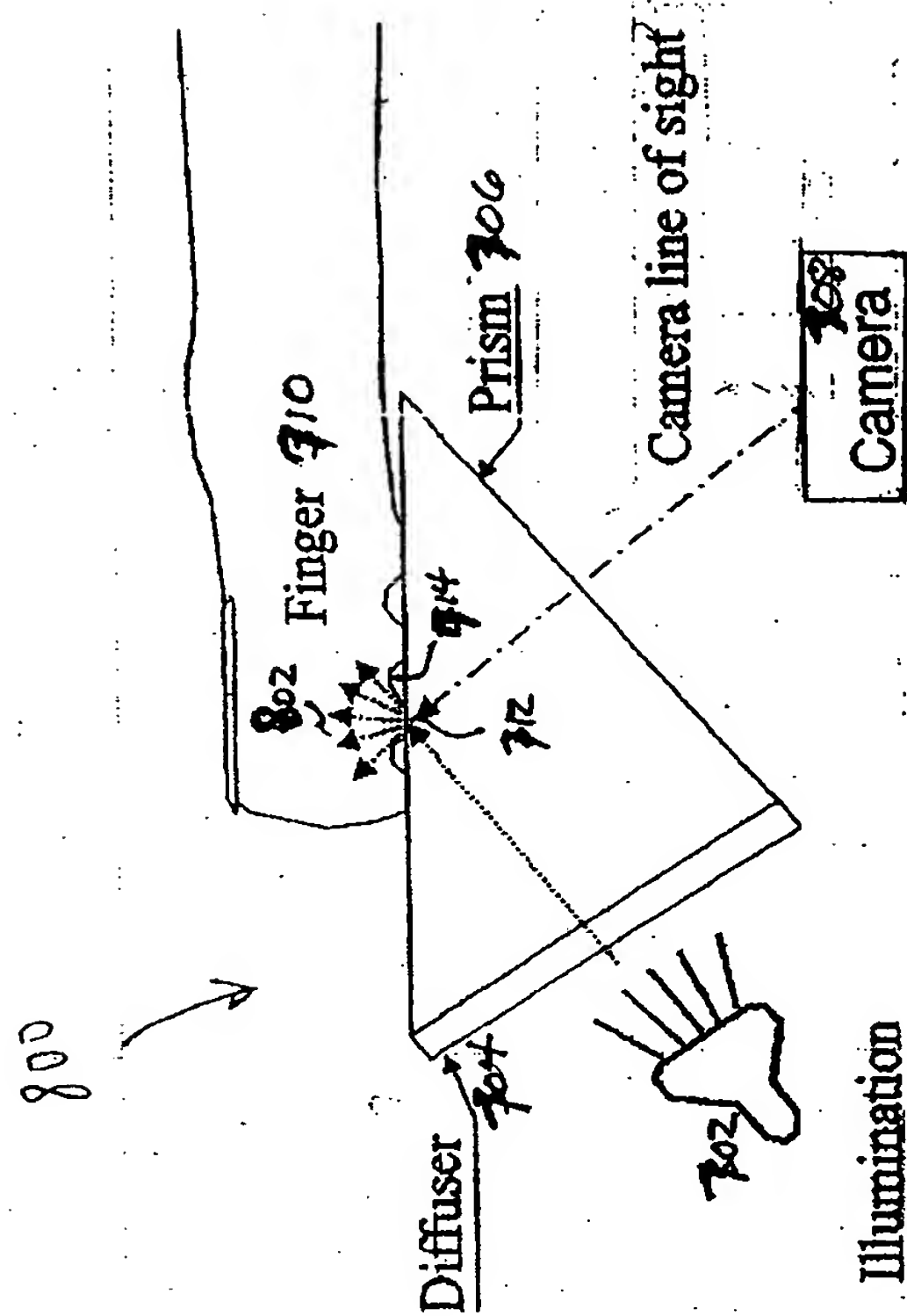


FIG. 8

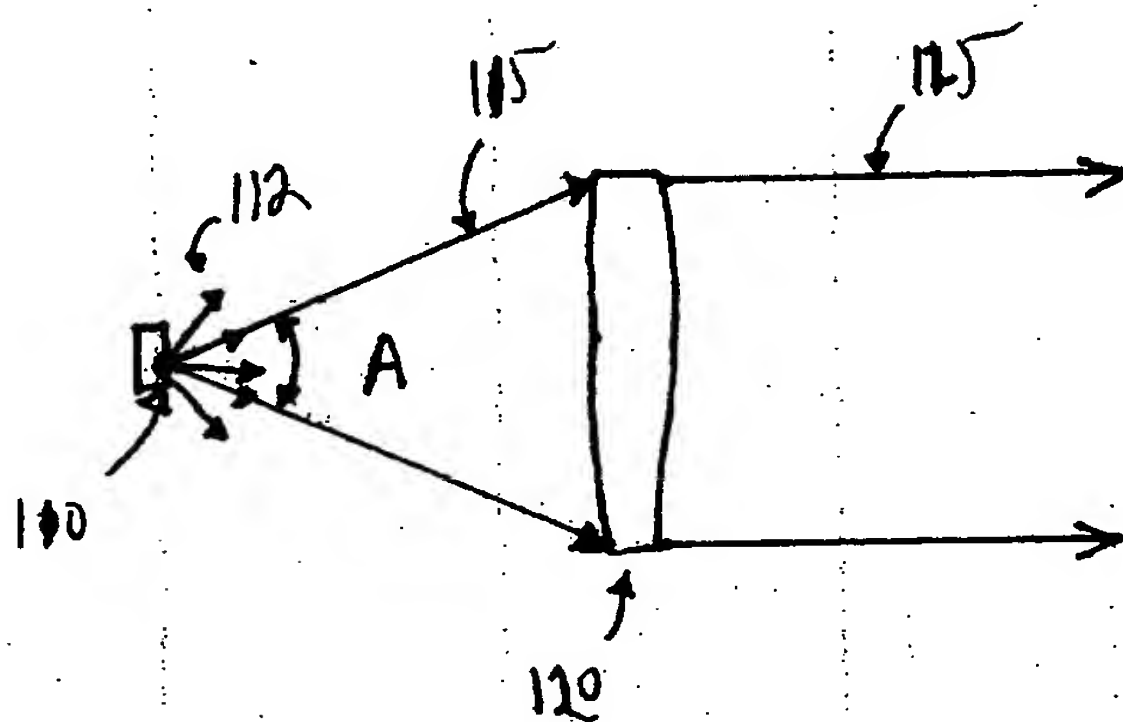


FIG. 1A

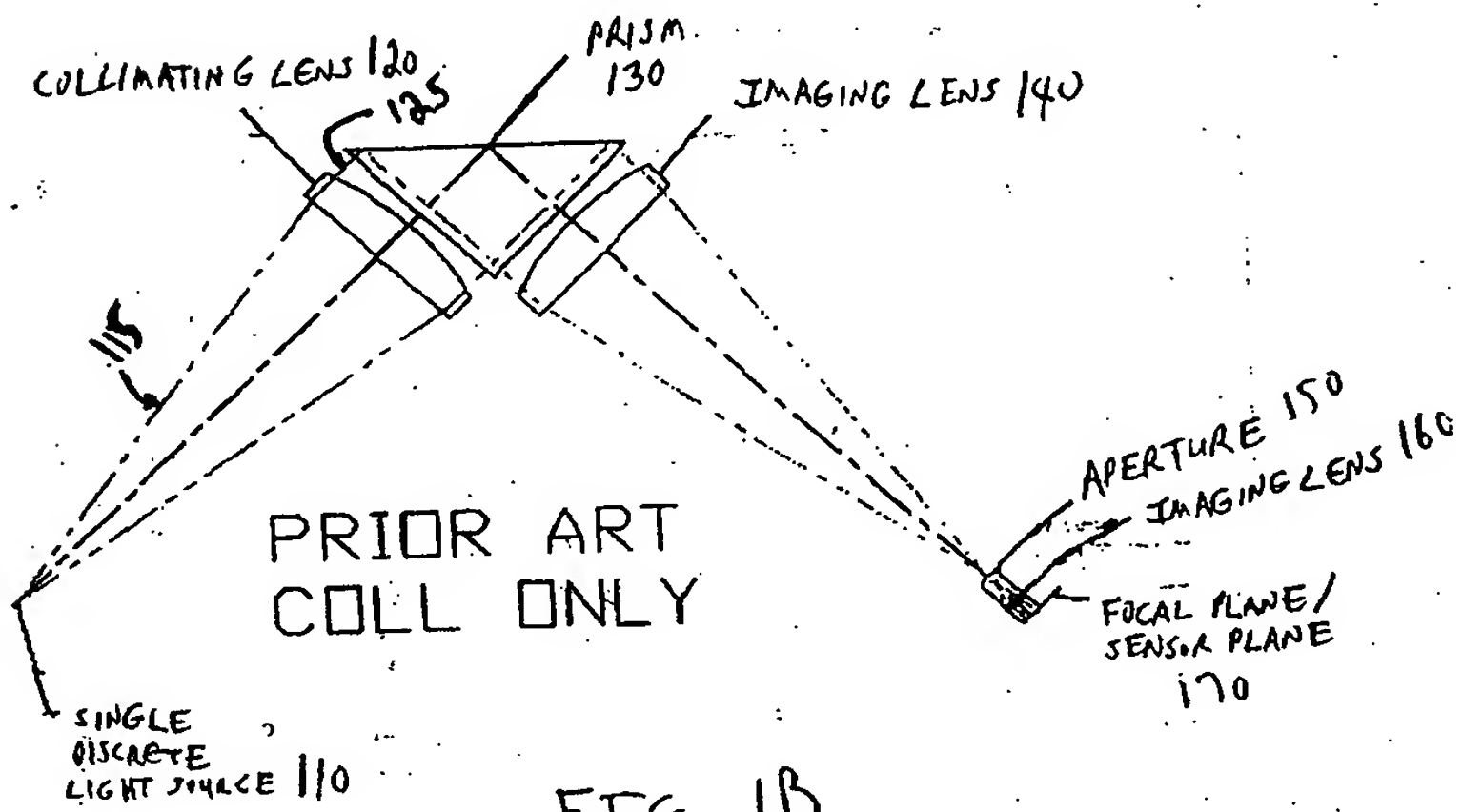


FIG. 1B

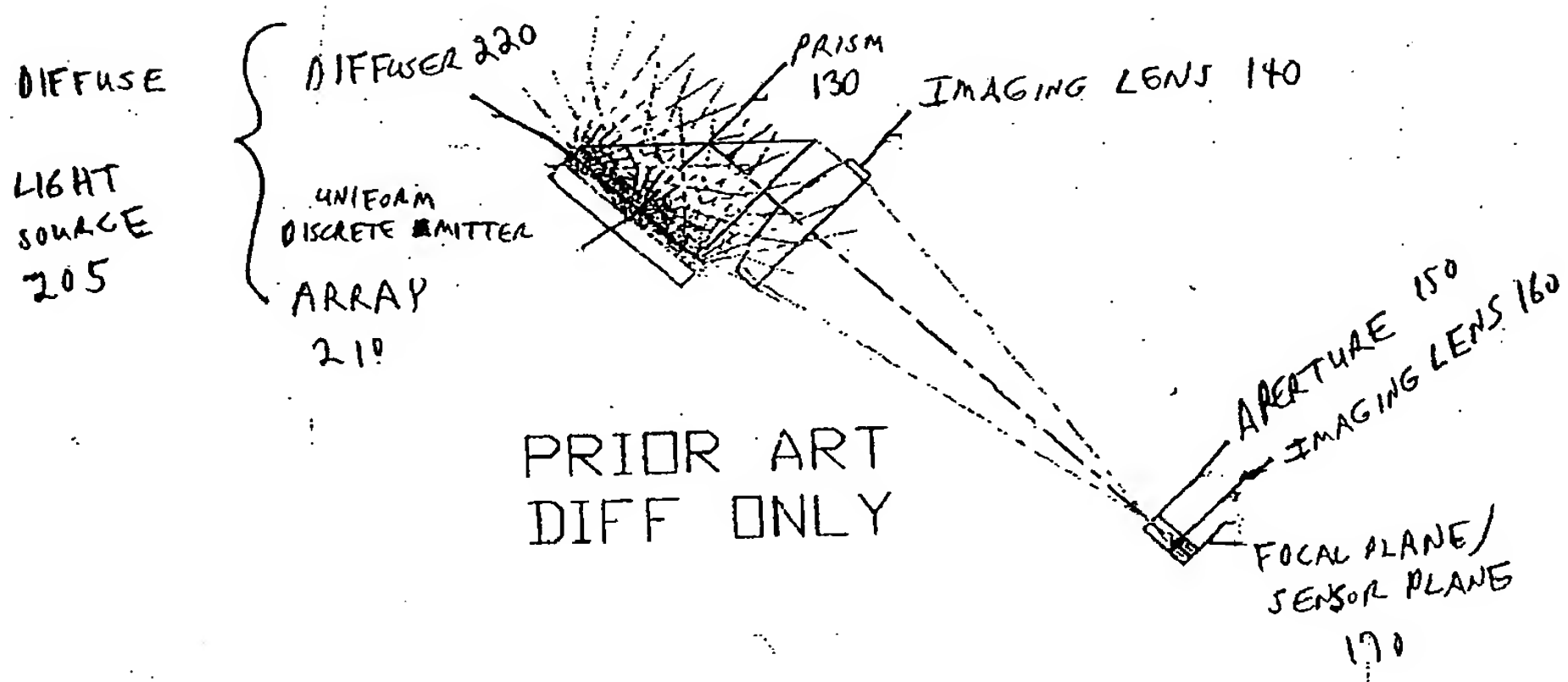


FIG. 2